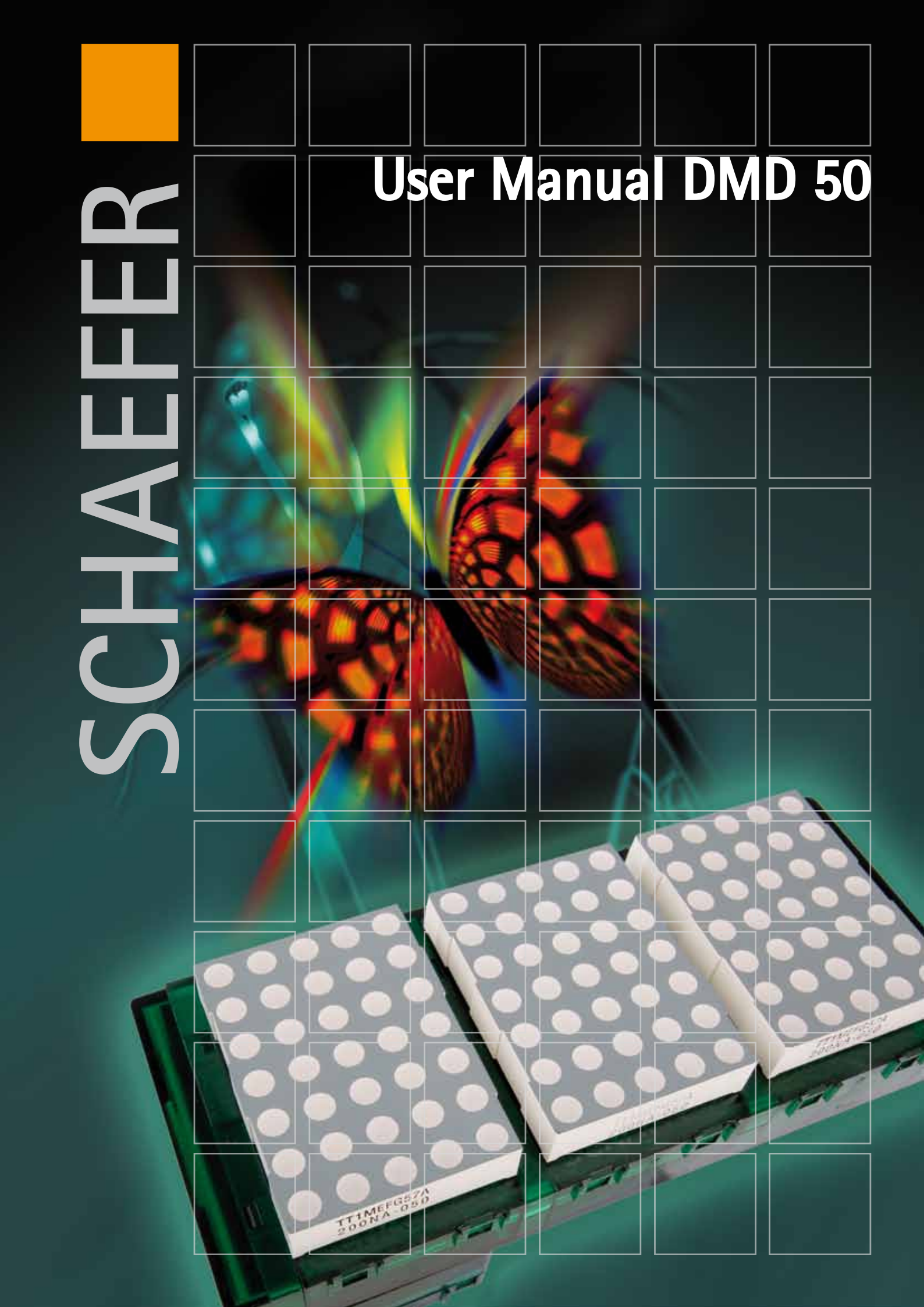
SCHAEFER

User Manual DMD 50



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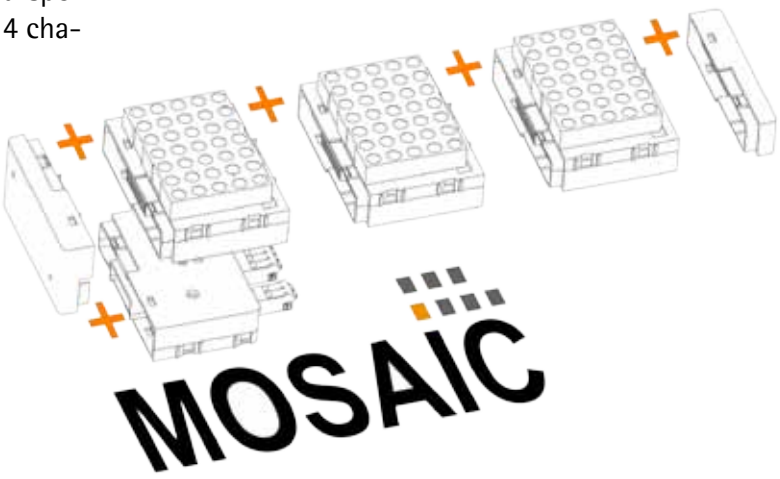
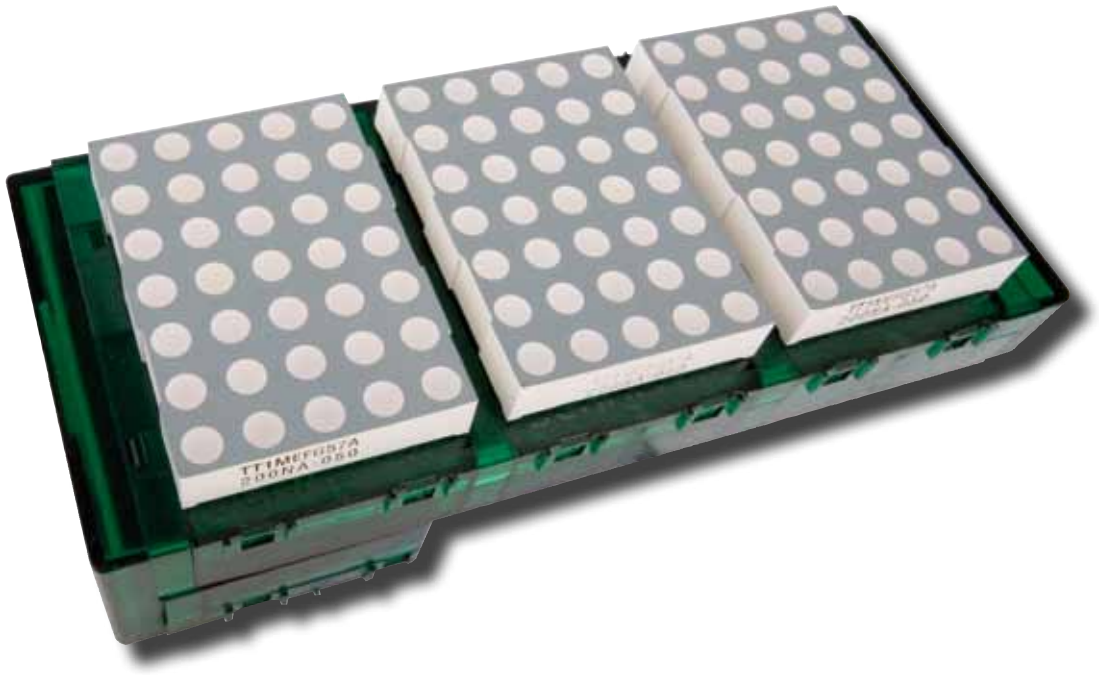
1 General description

DMD 50 is a dot-matrix display that can be used as Position Indicator-, direction- or re-starting Arrows, or a combination of both. The floor position as well as the direction arrows can be displayed as follows: standing, flashing or scrolling.
The display is available with one digit (DMD 50-1), with two digits (DMD 50-2) or with three digits (DMD 50-3). The display is configured and adjusted by DIP switches. The indicating characters/figures, including there functions can also be configured by a PC and can be changed at any time. Two free-defined special horizontally rolling texts messages (up to 14 characters) can be included.

2 Illustrations

The display consists of several segments.





3 Configuration

Two different kinds of configuration are possible:

- Configuration of the DMD 50 at SCHAEFER according to the customer requirement
- Configuration of the DMD 50 on site. Therefore a DMD-Config Kit is needed (article No. 010575).

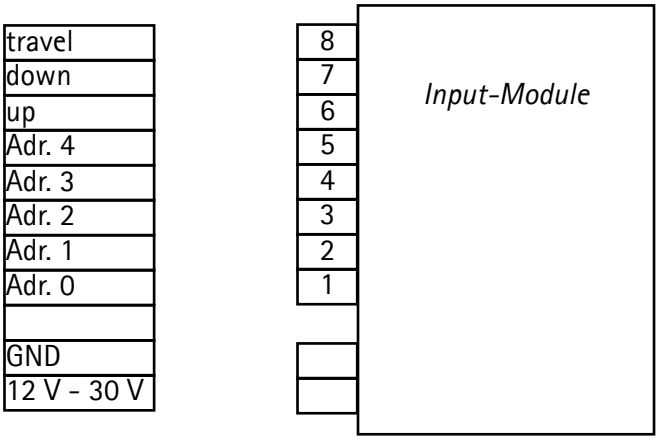
4 Input-Module

The display is connected via the Input Module. This module has a two-pole terminal for the voltage supply and an eight-pole terminal for the signal input.

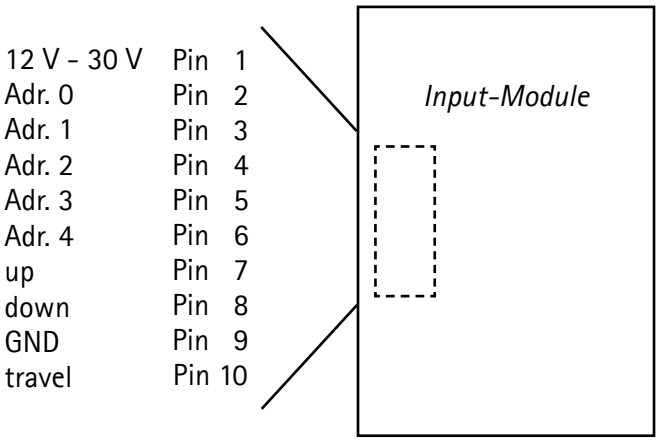
4.1 Programming

The following seizure of the terminals of the signal input is to be considered as a general presetting. Due to the free configuration, the seizure can be changed. In order to show special text messages, the terminals must be defined as special text messages by using the DMD-Configurator.

Schraubklemme / Federkraftklemme



Micro Match Buchse



4.2 Connection

Usually, the connection of the DMD 50 is made via the terminals. For a signal per floor connection with more than 5 floors, an additional Encoder PCB with ribbon cable is necessary.

	Article Nr.	
	Common anode	Common cathode
Encoder 1 out of 15	008808	008809
Encoder 1 out of 31	008806	008807

4.3 Additional Encoder ?

Die folgende Tabelle zeigt eine Übersicht, wann zusätzlich ein Encoder verwendet werden muss. Je nach Anzahl der Lauftexte und Etagen können Pfeile mit/ohne Fahrtsignal konfiguriert und vom Display angezeigt werden.

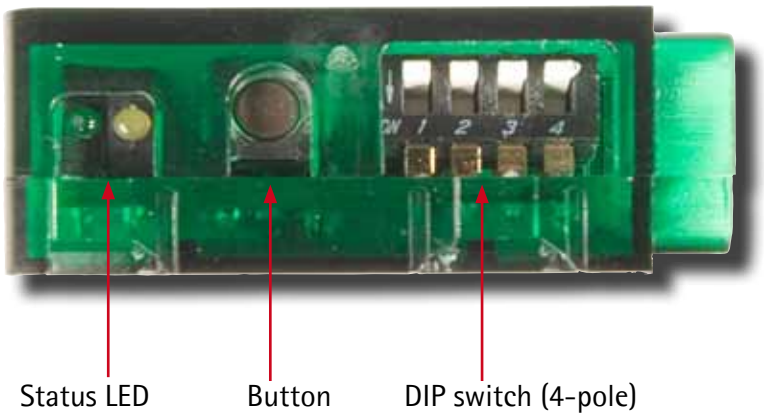
Horizontally Rolling Messages	Floors	Coding (control)		Display possibilities	
		Dual/Gray	1 out of n (signal per floor)	Arrows	Travelling
none	up to 5	-		yes	yes
	6 up to 15	-	Encoder 1 out15	yes	yes
	16 up to 31	-	Encoder 1 out31	yes	yes
1	up to 4	-		yes	yes
	5 up to 15	-	Encoder 1 out15	yes	yes
	16 up to 31	-	Encoder 1 out31	yes	no
2	up to 3	-		yes	yes
	4 up to 7	-	Encoder 1 out15	yes	yes
	8 up to 15	-	Encoder 1 out15	yes	no
	16 up to 31	-	Encoder 1 out31	no	no
3*	up to 2	-		yes	yes
	3	-	Encoder 1 out15	yes	yes
	4 up to 7	-	Encoder 1 out15	yes	no
	8 up to 15	-	Encoder 1 out15	no	no
	16 up to 31	-	Encoder 1 out15	no	no
4*	up to 2	-		yes	no
	3	-	Encoder 1 out15	yes	no
	4 up to 7	-	Encoder 1 out15	no	no
	8 up to15	-	Encoder 1 out15	no	no
	16 up to 31	-	nicht möglich		

** Mehr als zwei Sondertexte erst ab SW-Version 1.5 auf der DMD 50 möglich.*

Note: When using an Encoder PCB (Signal per floor), the DMD display must be configured for Dual coding.

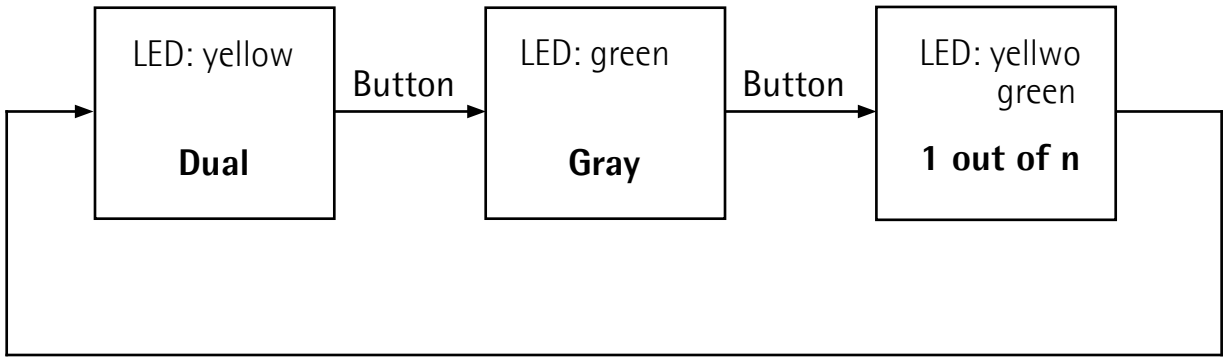
4.4 Settings

Different settings can be changed on the display by means of the buttons and respective DIP switches. The values are changed by the DIP switches and adjusted by the buttons. The status LED show the corresponding setting. The setting is saved after the corresponding DIP switch has been turned off.



4.4.1 Coding

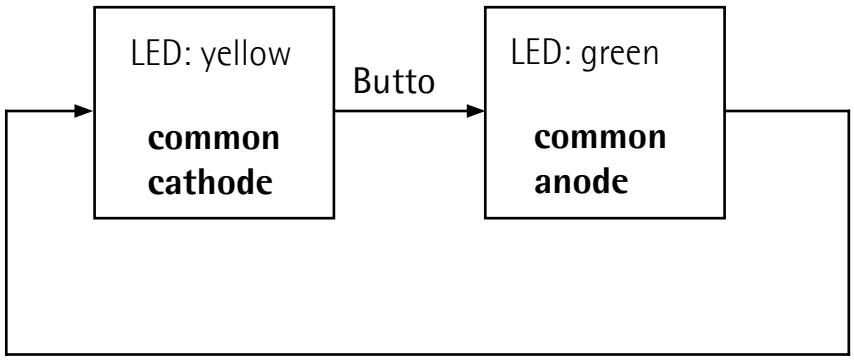
With DIP switch 1 the coding type of the display can be adjusted. By pressing the button the different coding type can be selected.



At the touch of a button

4.4.2 Connection

DIP switch 2 controls the switching variant. By switching the DIP switch to the on position and pressing the button, the module can be switched to common cathode (positive switching) or common anode (negative switching).



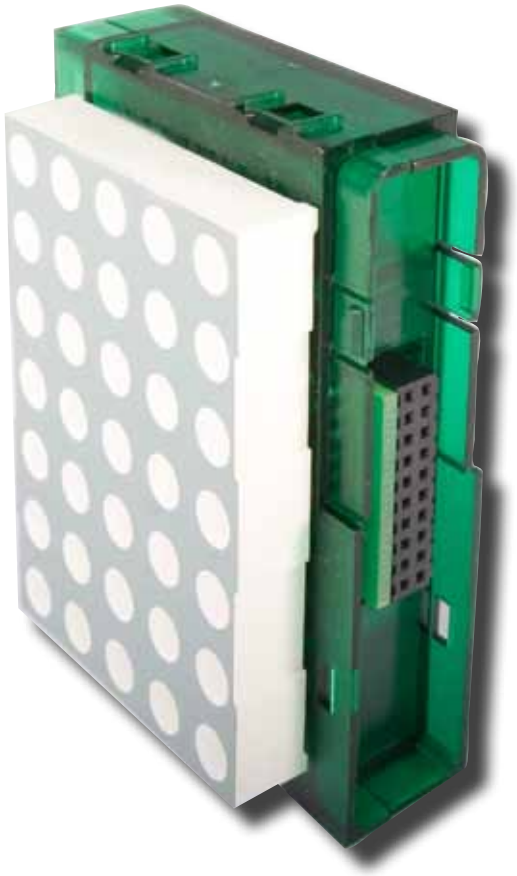
At the touch of a button

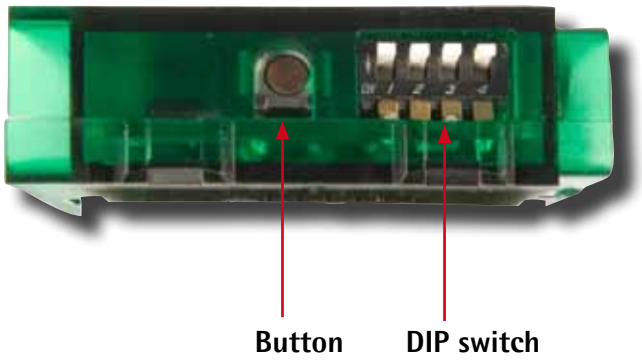
DIP switches 3 and 4 are reserved for later functions and have no effect.

5 PMD-Module

The dot-matrix segments are clipped-on the PMD-modules.

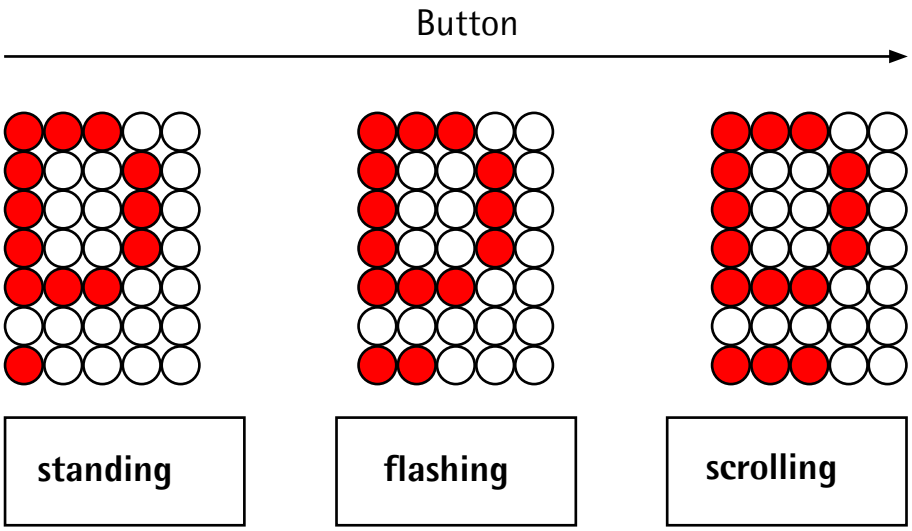
Different settings can be changed on the display by means of the buttons and respective DIP switches. The values are changed by the DIP switches and adjusted by the buttons. The dot-matrix shows the corresponding adjustment.
If the setting of one module has been changed, this setting will automatically be adopted by the other PMD Modules. The setting is saved after the corresponding DIP switch has been turned off.





5.1 Presentation

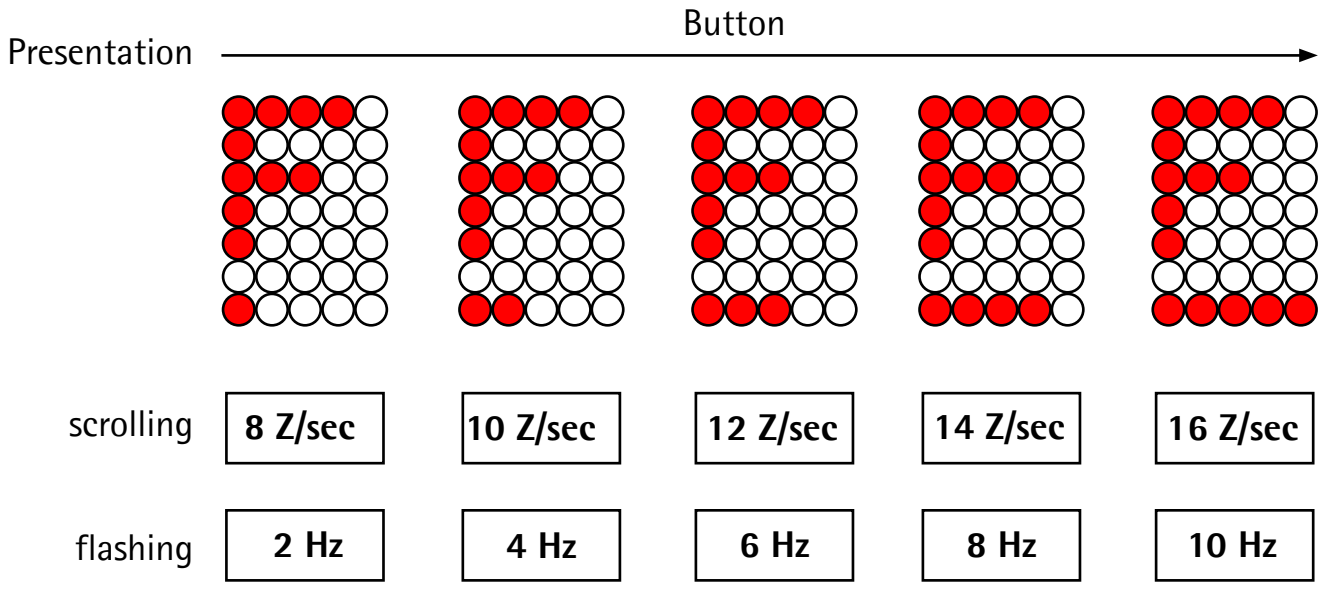
With the first DIP switch, the graphic versions of the character and arrows can be changed.



Switch off the DIP switches to save the settings.

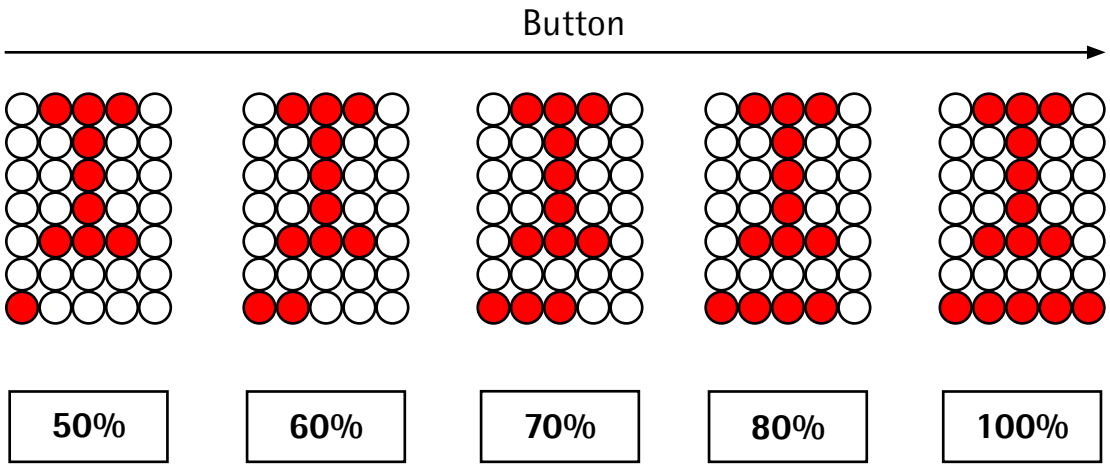
5.2 Frequency

With the second DIP switch, the flashing or scrolling frequency can be adjusted, this only applies if the Flashing or Scrolling mode is selected. This DIP switch has no function, if the "Standing" mode is applied.



5.3 Brightness/Intensity

With the third DIP switch, the brightness can be changed by pressing the button.



DIP switch 4 is reserved for later functions and has no effect.

6 Technical Data

Supply voltage:	12 – 30 V (DC, smoothed current)
Current requirement:	1-digit: up to 60 mA 2-digits: up to 105 mA 3-digits: up to 150 mA
Temperature range:	up to + 65 °C/149 °F
Luminosity:	red: 49 mcd green: 200 mcd blue: 40 mcd
Addressing 1 out of n:	up to 8 floors; with additional encoder up to 31 floors
Addressing binary/Gray:	up to 31 floors
Connection via terminal:	rigid or flexible up to 1,5 mm2 (flexible with wire end ferrules and plastic sleeves (0,5 mm2)
Connection via push-in terminal:	rigid or flexible up to 1,5 mm2 (flexible with wire end ferrules and plastic sleeves (0,75 mm2)
In conformity with:	EN 81-70 EN 81-71 EN 81-72

8 Models

As well as the standard, other models are available:

- splash-proof model IPX3 according to EN 81-72
  (temper proof model for category 1 according to EN 81-71)

In conformity with: